

B<sup>3</sup>

11. (Amended) A microscope comprised of:

a means of light emission and reception, comprised of a straight-through bore having a built-in source of illuminating light, and a light reception bore for image light separately;

a thin sheet-like mirror, arranged in a closed and adjacent manner with the straight-through bore and the light reception bore of the means of light emission and reception, wherein a mirror surface is formed at an acute angle at the tip thereof, wherein the thin sheet-like mirror narrows in width on two sides to form a wedge;

said thin sheet-like mirror navigates illuminating light so as to reflect at said mirror surface, and irradiate the light and a thus reflected and returned image light can be navigated and condensed by making a reflection at said mirror surface,

wherein said light reception bore for the image and the straight-through bore are aligned in a row in a horizontal direction perpendicular to the depth of the thin sheet-like mirror.

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13. (Amended) A microscope comprised of: a means of light emission and reception, comprised of a straight-through bore having a built-in source of illuminating light, and a light reception bore for image light separately; and a thin sheet-like mirror, arranged in a closed and adjacent manner with the straight-through bore and the light reception bore of the means of light emission and reception, wherein a mirror surface is formed at an acute angle at the tip thereof, wherein the thin sheet-like mirror narrows in width on two sides to form a wedge,

said thin sheet-like mirror has a half mirror at a baseside surface, which takes in said illuminating light and irradiates said image light,

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Cont'd

said thin sheet-like mirror reflects the illuminating light at said half mirror, navigates, and reflects at said mirror surface to irradiate the light; a thus reflected and returned image light can be reflected at said mirror surface, and navigated to get the light condensed,

wherein said light reception bore for the image and the straight-through bore are aligned in a row in a horizontal direction perpendicular to the depth of the thin sheet-like mirror.

**14. (Amended)** A microscope comprised of: a means of light emission and reception, comprised of a straight-through bore having a built-in source of illuminating light, and a light reception bore for image light separately; and a thin sheet-like mirror, arranged in a closed and

adjacent manner with the straight-through bore and the light reception bore of the means of light emission and reception, wherein a mirror surface is formed at an acute angle at the tip thereof, wherein the thin sheet-like mirror narrows in width on two sides to form a wedge,

said thin sheet-like mirror has a half mirror at a baseside surface, which takes in said illuminating light and irradiates said image light,

said thin sheet-like mirror reflects the polarized illuminating light at said half mirror to navigate and irradiate the light; and a thus reflected and returned image light can be reflected at said mirror surface and navigated to get the polarized light condensed,

wherein said light reception bore for the image and the straight-through bore are aligned in a row in a horizontal direction perpendicular to the depth of the thin sheet-like mirror.

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Conc'd  
15. (Amended) A microscope comprised of: a means of light emission and reception for illuminating light and image light comprised of a straight-through bore having a built-in source of illuminating light, and a light reception bore for image light separately;

a thin sheet-like mirror arranged in the means of light emission and reception; and a mirror surface formed at the tip of the thin sheet-like mirror at an acute angle, wherein the thin sheet-like mirror narrows in width on two sides to form a wedge,

wherein said mirror is the separate type in accordance with the means of light emission and reception,

wherein said light reception bore for the image and the straight-through bore are aligned in a row in a horizontal direction perpendicular to the depth of the thin sheet-like mirror.

16. (Amended) A microscope comprised of: a means of light emission and reception for illuminating light and image light comprised of a straight-through bore having a built-in source of illuminating light, and a light reception bore for image light separately; a thin sheet-like mirror arranged in the means of light emission and reception; and a mirror surface formed at the tip of the thin sheet-like mirror at an acute angle, wherein the thin sheet-like mirror narrows in width on two sides to form a wedge,

wherein said mirror has a half mirror at a base side surface,

wherein said light reception bore for the image and the straight-through bore are aligned in a row in a horizontal direction perpendicular to the depth of the thin sheet-like mirror.

Add claims 21-22.

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21. (New) The microscope as recited in claims 11, 12, 13, 14, 15, 16, 18, 19, or 20, wherein the sheet-like mirror has a shape and dimension that corresponds to a size of a region of observation of a target object.

22. (New) A microscope, comprising:  
a means of light emission and reception having a straight-through bore with a built-in source of illuminating light and a light reception bore for image light separately; and  
a wedge shaped sheet-like mirror, arranged in a closed and adjacent manner with the straight-through bore and the light reception bore of the means of light emission and reception, wherein the mirror surface is formed at an acute angle at the tip thereof, wherein the wedge sheet-like mirror narrows in width on two sides at the mirror surface,

said wedge shaped sheet-like mirror navigates illuminating light so as to reflect at the said mirror surface, and irradiate the light and the thus reflected and returned image light can be navigated and condensed by making a reflection at the said mirror surface, wherein the wedge shaped sheet-like mirror has a shape and dimension that corresponds to a size of a region of observation of a target object,

wherein said light reception bore for the image and the straight-through bore are aligned in a row in a horizontal direction perpendicular to the depth of the thin sheet-like mirror.